

FIG. 1

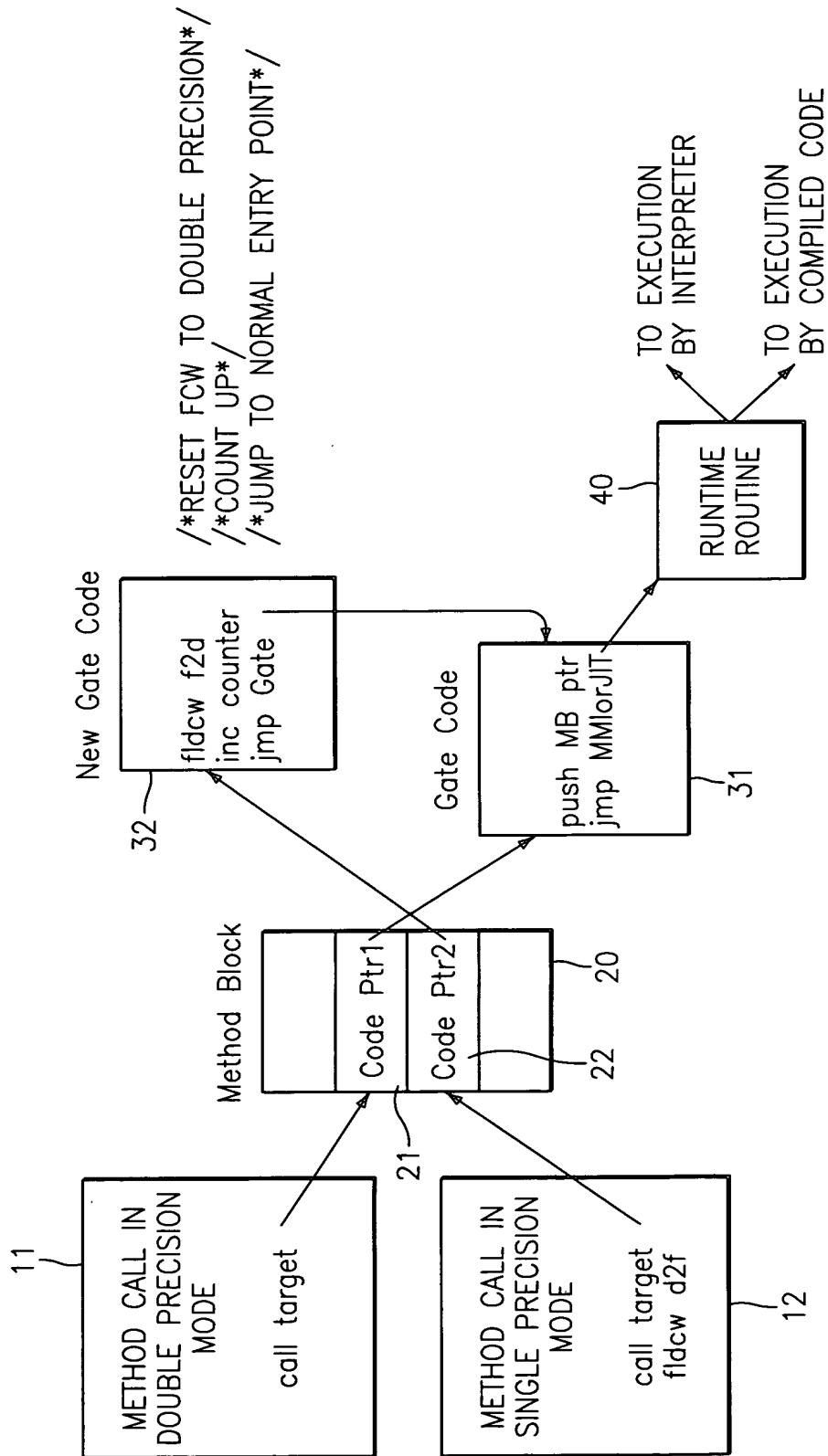


FIG. 2

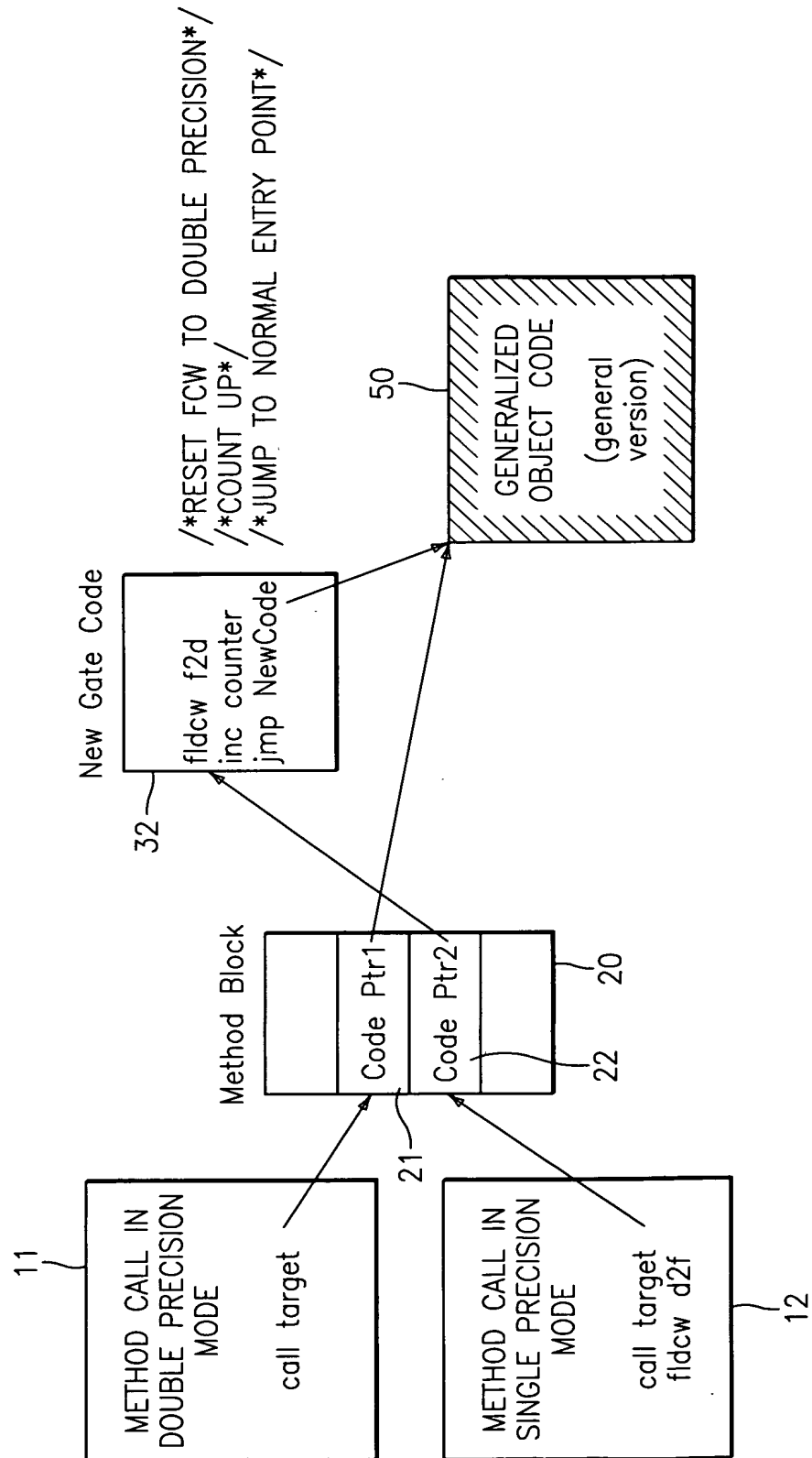


FIG. 3

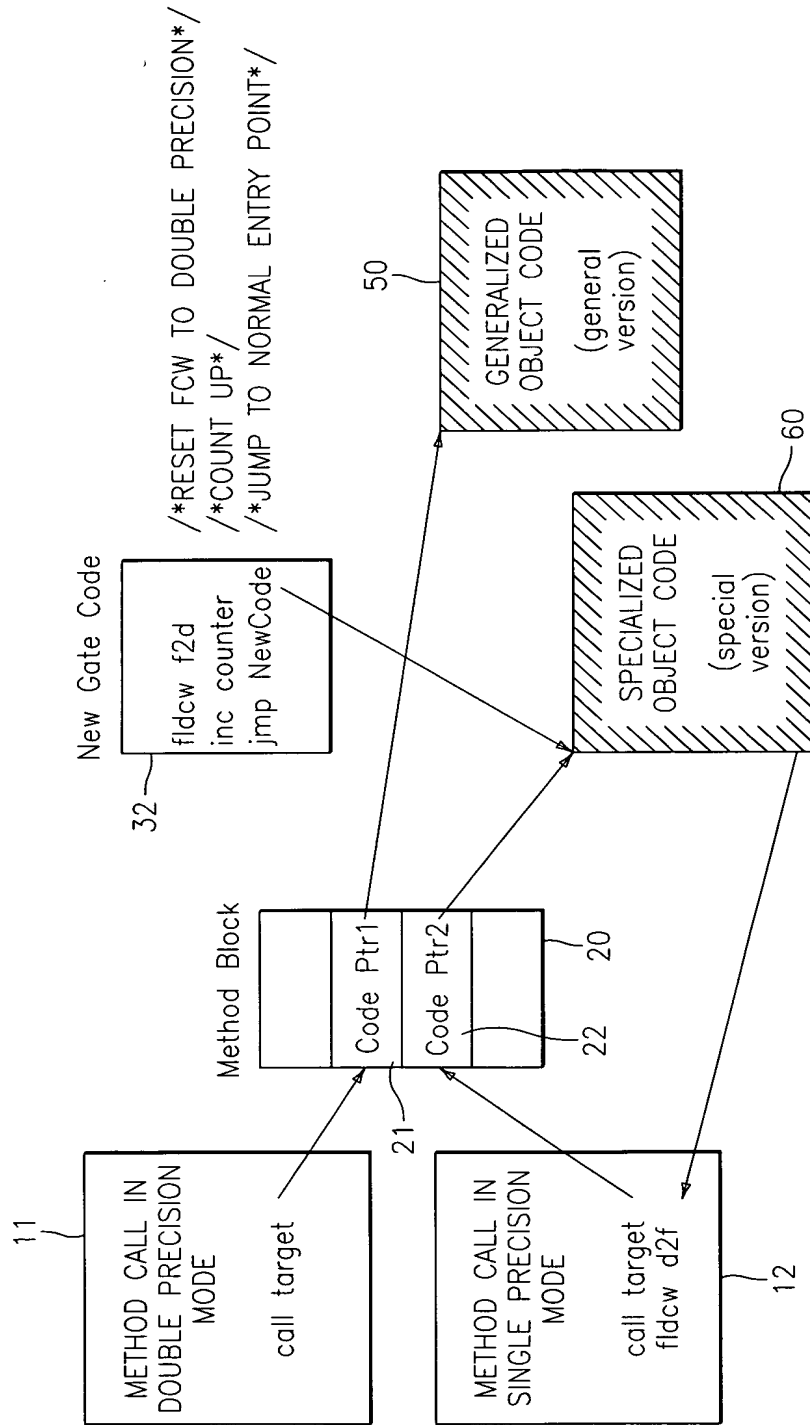


FIG. 4

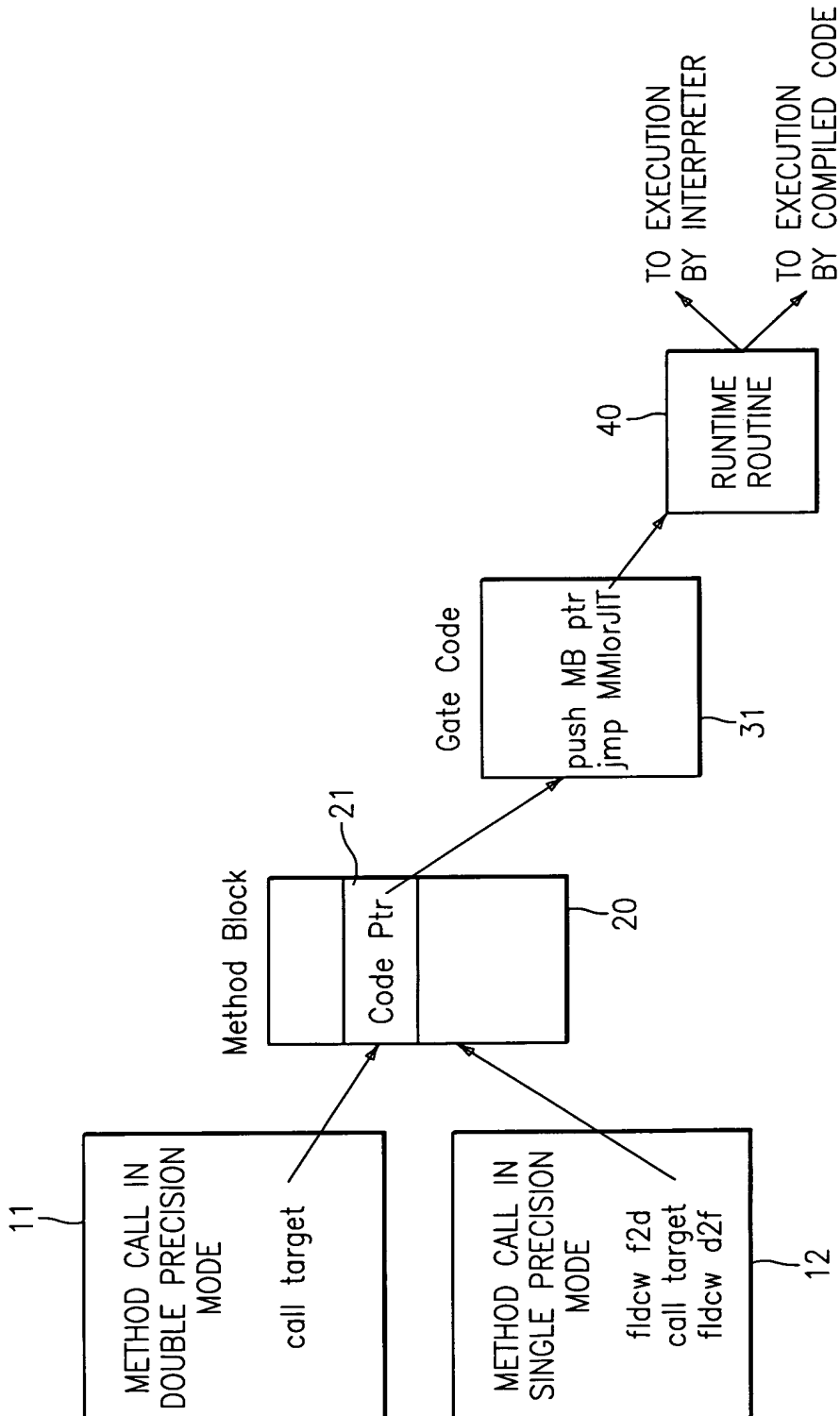


FIG. 5
(PRIOR ART)

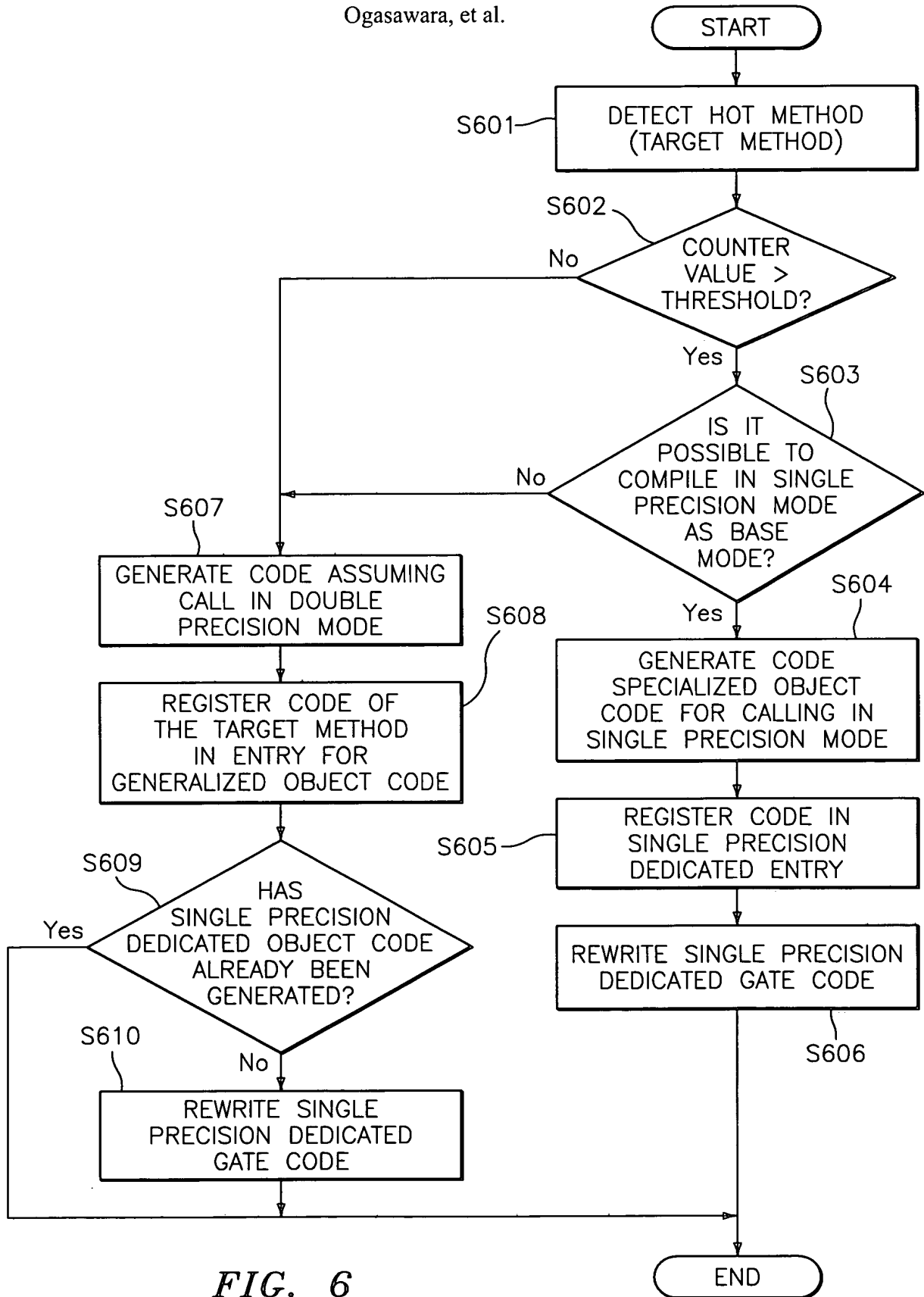


FIG. 6

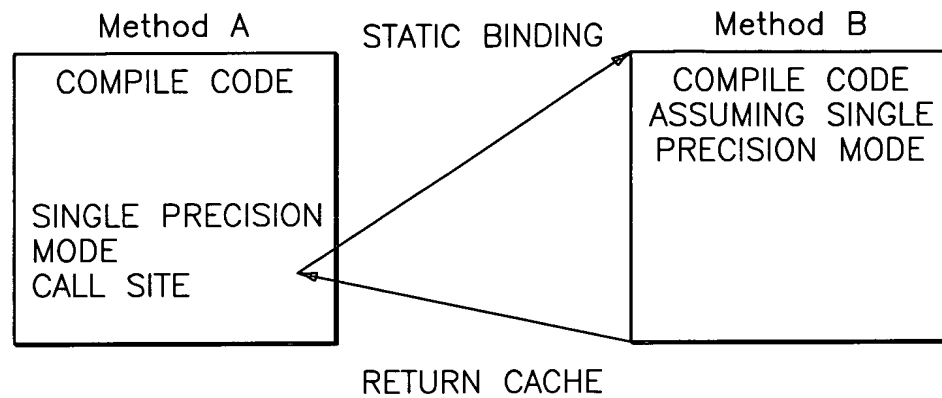


FIG. 7

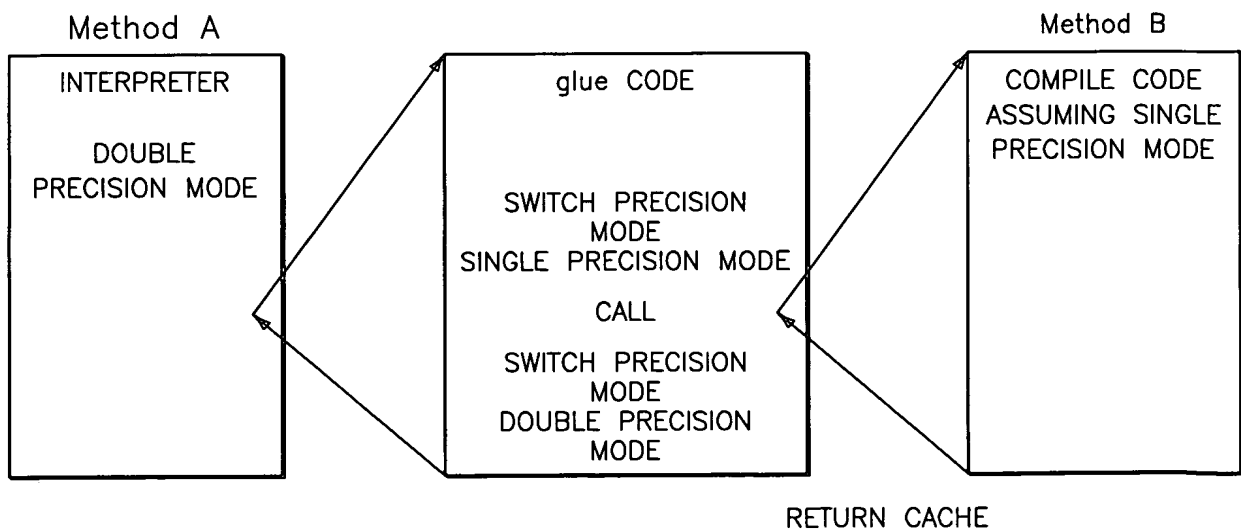


FIG. 8

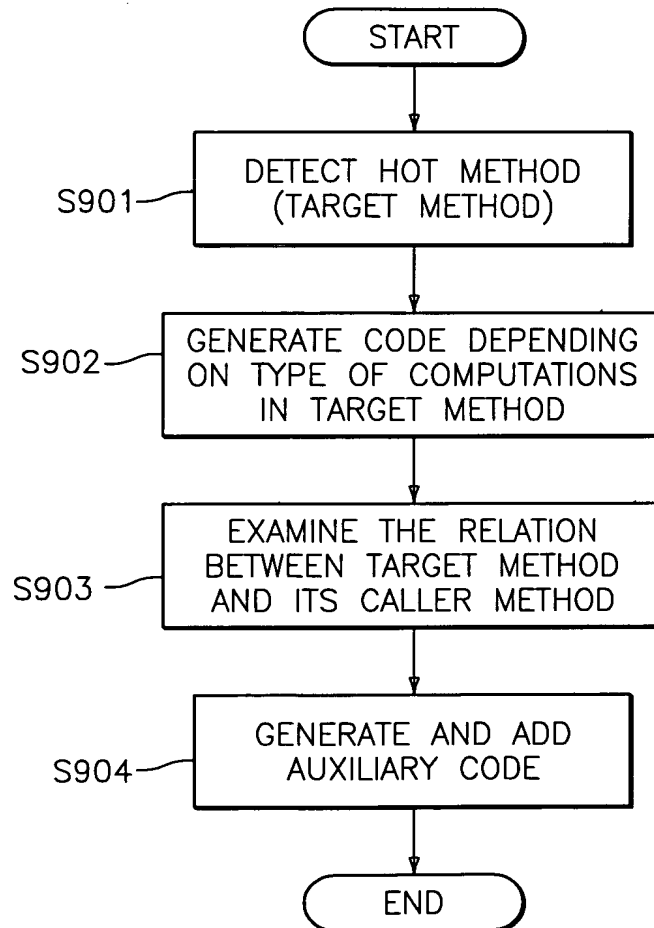


FIG. 9

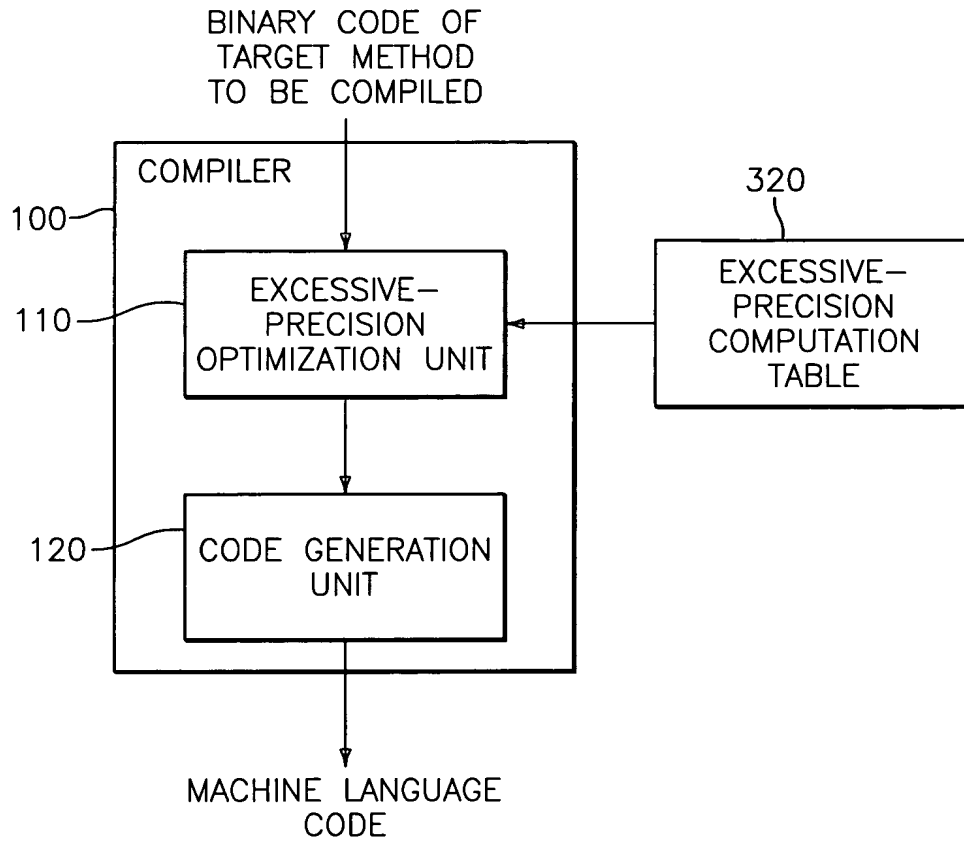


FIG. 10

KIND OF OPERATION	RESTRICTION ON INPUT 1	RESTRICTION ON INPUT 2	...
DMUL	MANTISSA IS SINGLE PRECISION	MANTISSA IS 1	
DSQRT+D2F	MANTISSA IS SINGLE PRECISION	N/A	
⋮			

FIG. 11

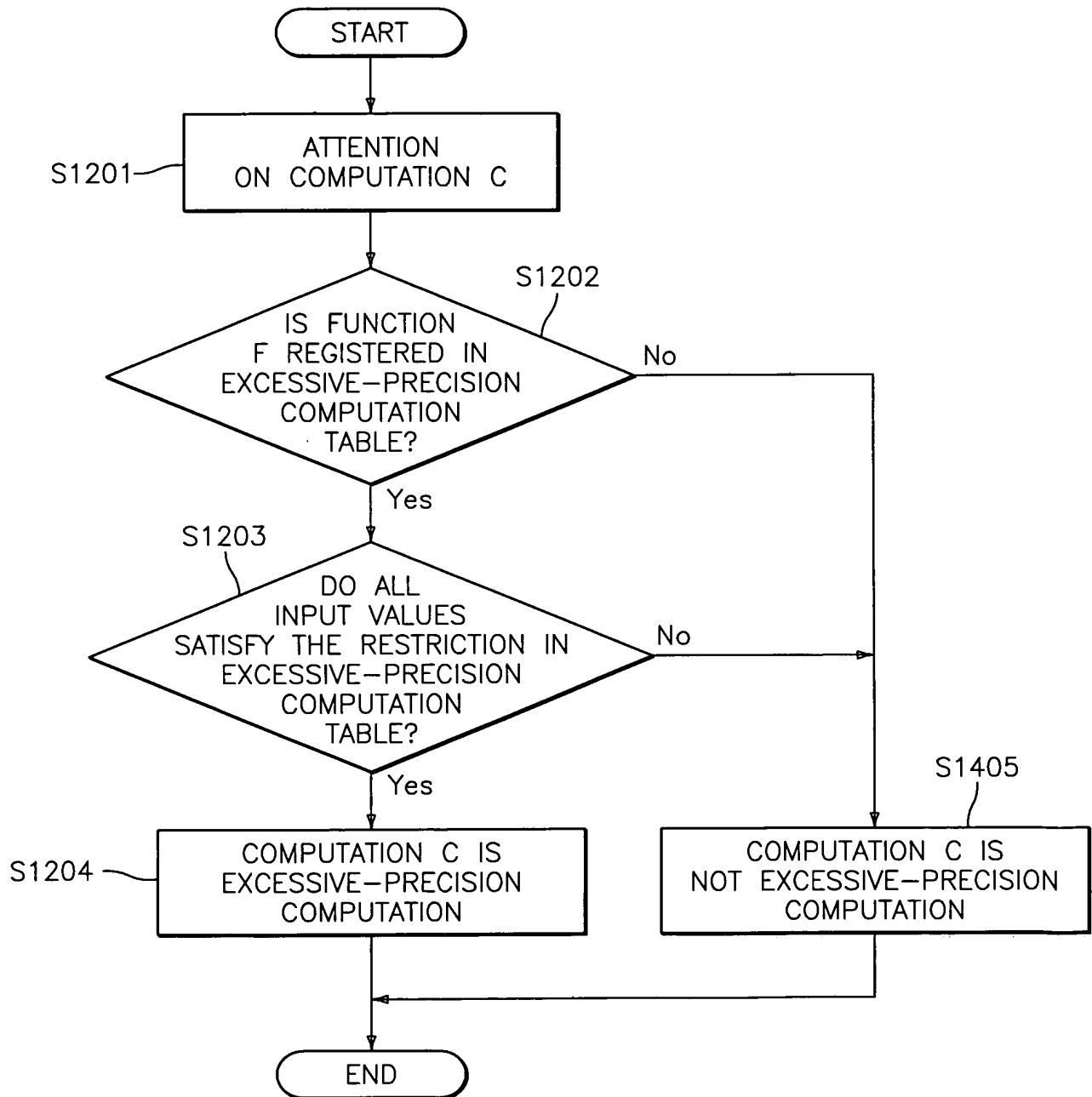


FIG. 12

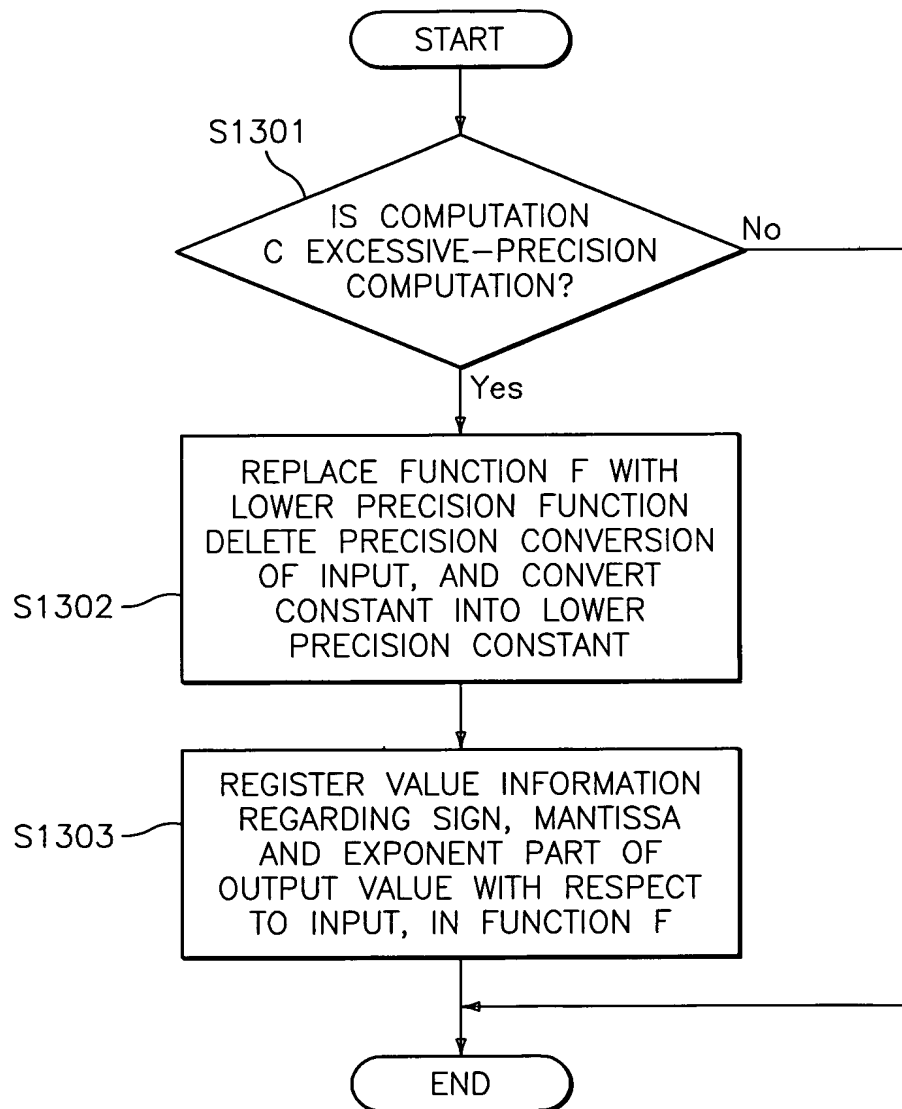


FIG. 13

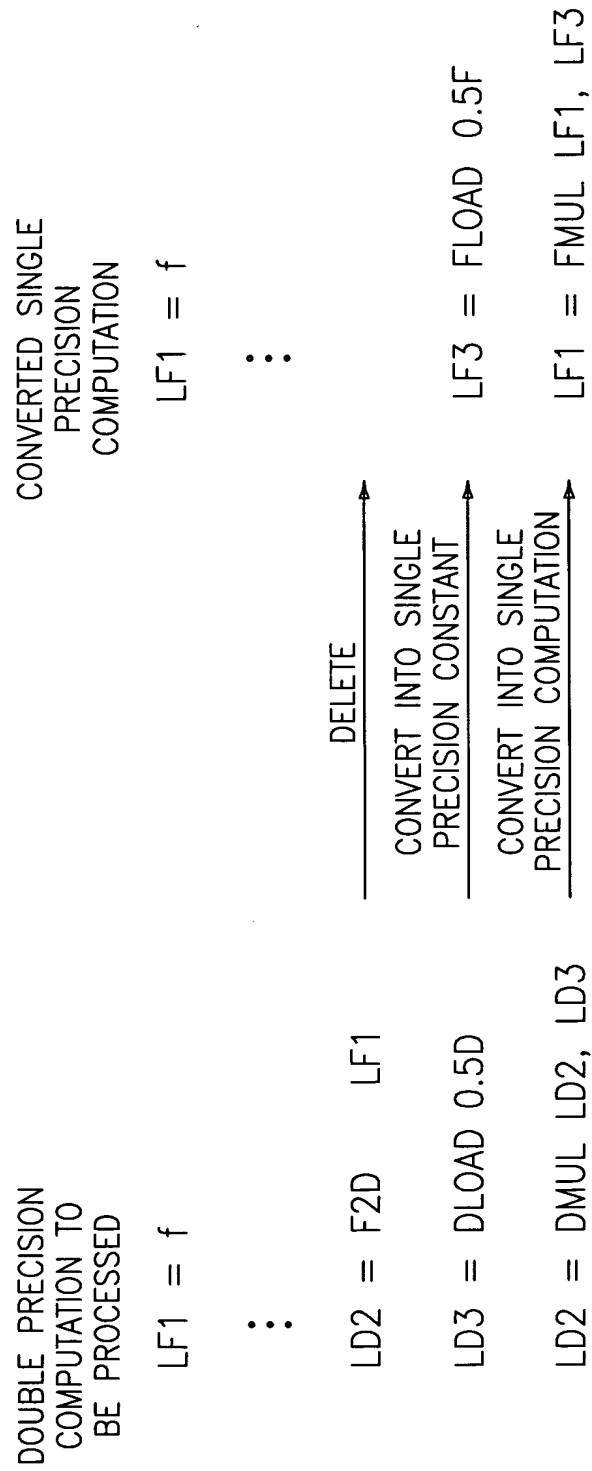


FIG. 14

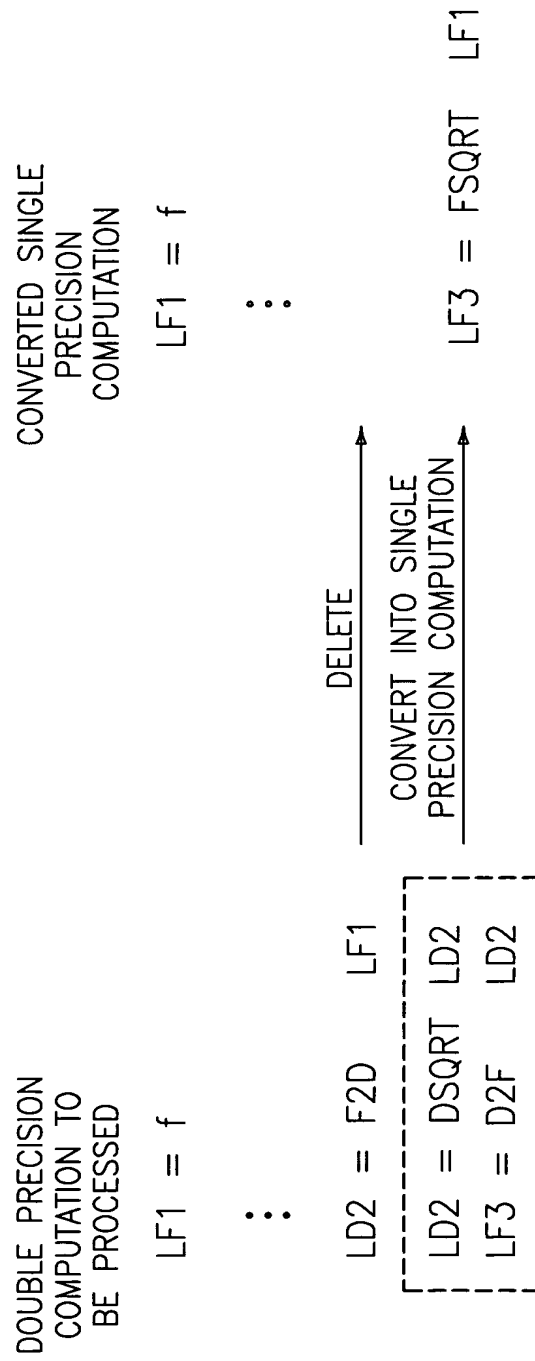


FIG. 15

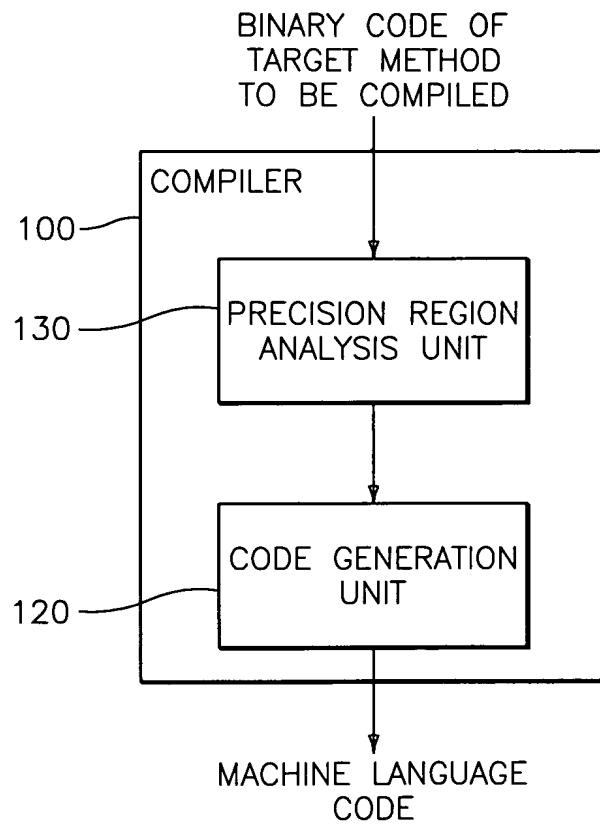


FIG. 16

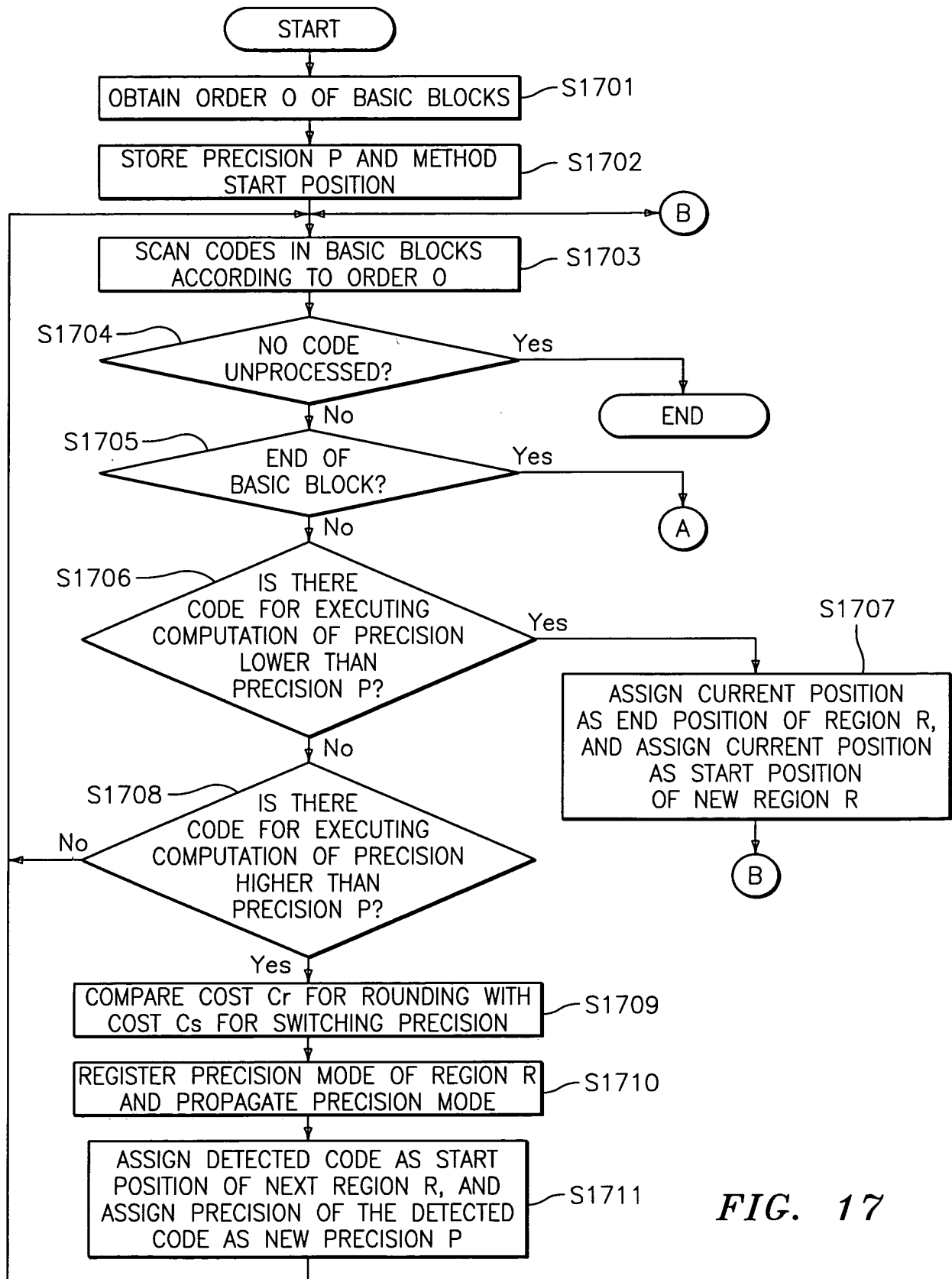


FIG. 17

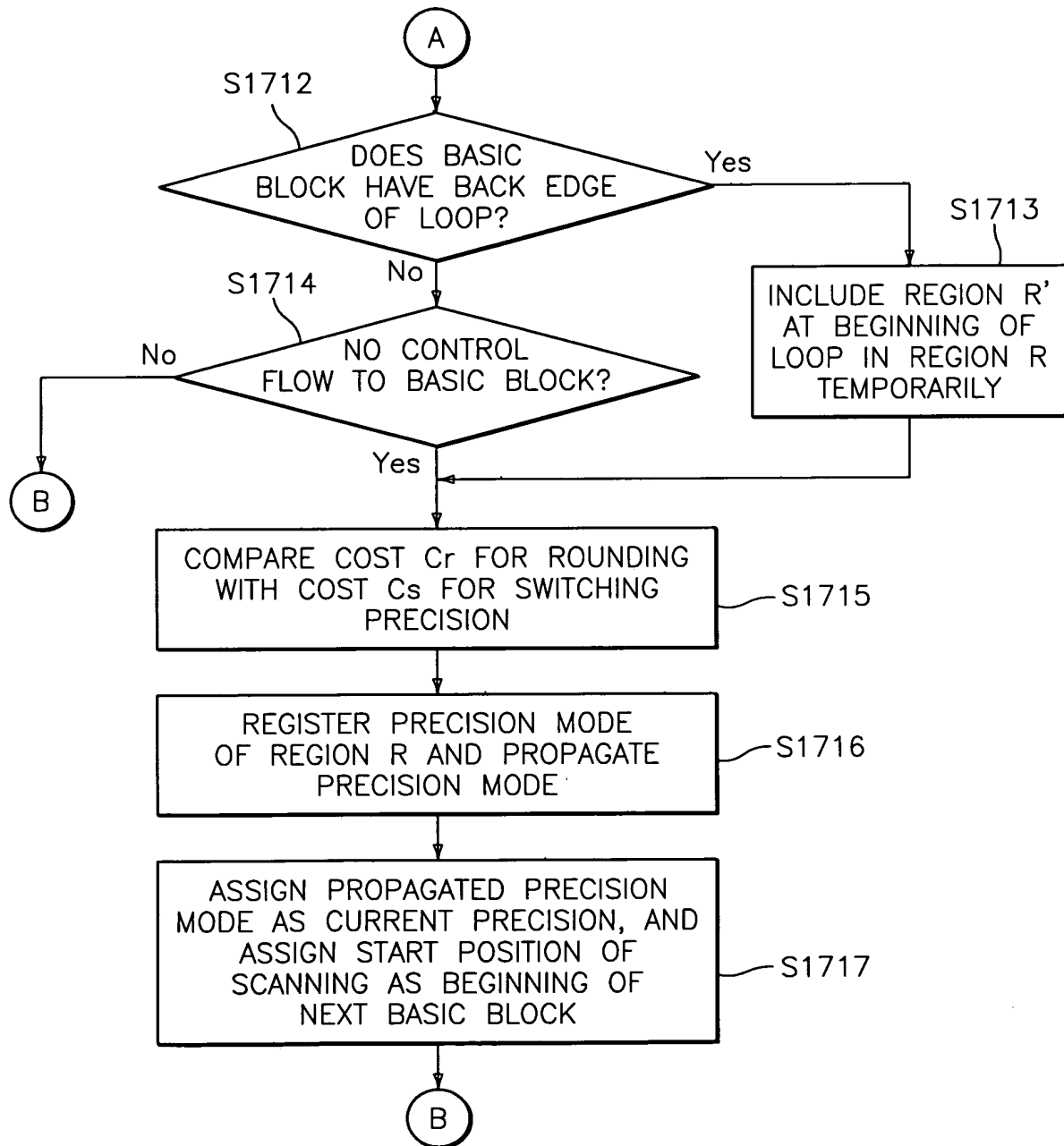


FIG. 18

(A)

```
if (cond) (  
    statement11  
    statement12  
) else (  
    statement21  
    statement22  
)  
    statement3
```

(B)

```
Basic Block 1  
    test cond  
    if true go to Basic Block 2  
    go to Basic Block 3  
  
Basic Block 2  
    statement11  
    statement12  
    go to Basic Block 4  
  
Basic Block 3  
    statement21  
    statement22  
    go to Basic Block 4  
  
Basic Block 4  
    statement3
```

FIG. 19

2001

R NUMBER	START POSITION	END POSITION	BASIC BLOCKS INCLUDED IN THE REGION	ATTRIBUTE
1	THE THIRD INSTRUCTION IN BASIC BLOCK 1	THE SECOND INSTRUCTION IN BASIC BLOCK 3	1, 2, 3	SINGLE PRECISION
2
.
.

FIG. 20